

**IN THE CLAIMS**

1-25 (Canceled).

26. (New) An isolated nucleic acid molecule comprising a nucleotide sequence having at least about 90% sequence identity to a nucleotide sequence encoding an HPTK6 polypeptide comprising the amino acid sequence shown in SEQ ID NO:4, or the complement of the nucleotide thereof.

27. (New) The isolated nucleic acid molecule of Claim 26, comprising a nucleotide sequence that encodes the amino acid sequence shown in SEQ ID NO: 8.

28. (New) The isolated nucleic acid molecule comprising the HPTK6 nucleotide sequence shown in SEQ ID NO:7.

29. (New) The isolated nucleic acid molecule comprising the HPTK6 nucleotide sequence shown in SEQ ID NO:3.

30. (New) An isolated nucleic acid molecule comprising an HPTK6 nucleotide sequence that hybridizes to the complement of a nucleic acid sequence that encodes the amino acid sequence shown in SEQ ID NO:4, wherein the hybridization occurs under stringent hybridization and wash conditions.

31. (New) An isolated nucleic acid molecule comprising an HPTK6 nucleotide sequence that hybridizes to the complement of a nucleic acid sequence that encodes the amino acid sequence shown in SEQ ID NO: 8, wherein the hybridization occurs under stringent hybridization and wash conditions.

32. (New) A vector comprising a nucleic acid molecule of Claim 26.

33. (New) The vector of Claim 32, wherein said nucleic acid molecule is operably linked to control sequences recognized by a host cell transformed with the vector.

34. (New) A host cell comprising the vector of Claim 33.

35. (New) The host cell of Claim 34, wherein said cell is a CHO cell, a yeast cell or *E. coli*.

36. (New) A vector comprising a nucleic acid molecule of Claim 27.

37. (New) A vector comprising a nucleic acid molecule of Claim 28.

38. (New) A vector comprising a nucleic acid molecule of Claim 29.

39. (New) A vector comprising a nucleic acid molecule of Claim 30.

40. (New) A vector comprising a nucleic acid molecule of Claim 31.